

## 10-400kVA INDUSTRIAL UPS

The UPS DS 300 H & HB series combines economy and high protection in a wide range of critical applications such as: offices, communication networks, professional and industrial environments. The innovative UPS architecture incorporating three independent DSP circuits combined with a three-level Rectifier/Inverter topology, low signal harmonic distortion (THDi), is ideal for installations that require high frequencies, complex filtering and top performance. DS units can be used as individual, stand-alone UPS or as a multi-cabinet system with up to 8 units in parallel connection, reaching a total output of up to 3.2 MW.



### 3phase in / 3phase out

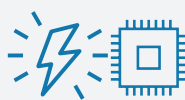
#### ΠΛΗΡΗΣ ΠΡΟΣΤΑΣΙΑ ΕΦΑΡΜΟΓΩΝ



TELECOM



BUILDING POWER  
INFRASTRUCTURE



CRITICAL  
LOADS



HEAVY  
INDUSTRY



DATA  
CENTERS



TRANSPORT  
INFRASTRUCTURE



HOSPITALS

## Features

- Online UPS topology without conversion
- 3 level topology
- High input power factor
- High performance up to 95%
- Instant start function
- Static and Maintenance Bypass Switch
- Output short circuit and overload protection
- External REPO switch input
- 512 event memory (512 events, 45000 alerts)
- Clock and calendar (with the support of batteries)
- Automatic battery check with remaining power indicator
- 2 communication RS232 and 12 dry-contact outlets
- Modular structure with 3 DSPs
- Fully digital structure
- Limiting the output current
- Advanced diagnostics
- Adjustable input/output voltage/frequency/range
- Split bypass input (second input)
- Output DC leakage protection
- Separate DSPs for inverter and PFC 3-level battery protection
- High charging current power
- Charge/discharge current indicator
- Advanced remote control Manufactured to EC regulation EN62040 10 years spare parts support

# DS 300 H - HB



**INDUSTRIAL UPS** 3phase in / 3phase out **10-400kVA**

H Models / P.F = 0.9	DS310H	DS315H	DS320H	DS330H	DS340H	DS360H	DS380H	DS3100H	DS3300H	DS3400H	
HB Models / P.F = 1	DS310HB	DS315HB	-	DS330HB	DS340HB	DS360HB	DS380HB	DS3100HB	DS3300HB	DS3400HB	
Power (kVA)	10	15	20	30	40	60	80	100	300	400	
<b>INPUT</b>											
Voltage	380/400 VAC 3P + N + G $\pm$ 20% (at 100% load) / - 40% (at 70% load)										
Frequency	50Hz / 60Hz , $\pm$ 5%										
Power factor	$\geq$ 0.99 (at 100% load)										
THDI (*)	$\leq$ 3%										
By-pass voltage	380/400 VAC 3 Phase + N, $\pm$ 10%										
Voltage distortion	$\leq$ 10%										
Protections	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator										
<b>OUTPUT</b>											
Power (kW) H models	9	13.5	18	27	36	54	72	90	270	360	
Power (KW) HB models	10	15	20	30	40	60	80	100	300	400	
Power factor	0.9 (0,8 and 1 optional)										
Voltage	380/400 VAC 3P + N, $\pm$ 1% (415 VAC optional )										
Frequency	50Hz / 60Hz										
Frequency tolerance	Line synchronized: $\pm$ 2% (adjustable) / Free running: $\pm$ 0,1%										
Efficiency	up to 95%										
Crest factor	3:1										
Overload capacity	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass										
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting										
VoltageTHD	$\leq$ 3% (at 100% linear load)										
<b>BATTERY</b>											
Type	VRLA AGM / GEL / NiCd										
Number of batteries	2x30 ( $\pm$ 30) : 60 pieces										
Charge voltage	2x405 VDC										
End of discharge voltage	2x300 VDC										
Cabinet	Internal							External			
Ambient temperature	25°C										
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)										
Automatic testing	Standard every 72 hours (adjustable)										
<b>GENERAL</b>											
Standards	EN62040-1, EN62040-2, EN62040-3										
User interface	4 lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, Optional TFT panel										
Indicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time										
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS232,operating hour meter										
Communication	2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays										
Inputs	EPO input, Interactive battery panel input, Genset input										
Genset kit	Standard (programmable)										
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)										
Alarm logging	Standard:with time & date 512 events										
Protections	Power module over-temperature, Overcurrent, Temperature high alarm										
Temperature ranges	0°C - 40°C										
Protection degree	IP20										
Relative humidity	90% max (non-condensing)										
Altitude	< 1000m above sea level										
Acoustic noise	< 57 dBA			< 62 dBA				< 65 dBA		< 68 Dba	
Net weight (kg)	87	87	91	100	173	197	209	220	635	680	
Dimensions (mm) HxWxD	1040x400x815			1440x515x855				1900x1250x775			
<b>OPTIONS</b>											
Transformer	Galvanic isolation transformer at the input & output (internal)										
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients										
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Com-port multiplexer										
Parallel operation	up to 8 units										

\*Features are subject to change without notice.



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